

WHAT IS CLAIMED IS:

1. An electron source manufacturing apparatus comprising:

5 (a) a support which supports a substrate having a conductor formed thereon and has means for adjusting a temperature of the substrate;

(b) a vessel which has a gas inlet port and a gas exhaust port and covers part of the substrate;

10 (c) means for introducing and exhausting gas into and from said vessel; and

(d) means for applying a voltage to the conductor, wherein part of said support has a groove.

15 2. An electron source manufacturing apparatus comprising:

(a) a support which supports a substrate having a plurality of conductors each comprising a pair of electrodes and a conductive film formed between the electrodes;

20 (b) a vessel which covers part of the substrate;

(c) means for introducing and exhausting gas into and from a space defined by said vessel and the substrate; and

25 (d) means for applying a voltage to each conductor,

wherein said support has a groove in a surface in contact with the substrate.

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